



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Kazunori KANEDA.

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For : TIRE REINFORCING MEMBER AND REINFORCED
PNEUMATIC TIRE

Art Unit & Examiner : 1733, FISCHER,JUSTIN R

DECLARATION UNDER 37 CFR 1.132

ASSISTANT COMMISSIONER FOR PATENTS

WASHINGTON, D.C. 20231

Sir:

I, Kazunori KANEDA, residing 2971-1, Kitairiso, Sayama-shi,
Saitama-ken, Japan, declare that:

1. I graduated from Tohoku University with a Master's degree in School of Engineering in March 1994, and joined BRIDGESTONE CORPORATION in April 1994. Then, I was engaged in the research and development of a steel cord for five years, and from November 1999, I have been engaged in the development of the steel cord-to-coating rubber adhesion in Material-Development up to the present.

2. I am inventor of present U.S. Patent Application as identified above and familiar with the subject matter disclosed in the application.

3. Experiment

Object of Experiment

In order to clarify difference in hardness, tensile strength (Tb), and elongation (Eb) between the side rubber S disclosed USP'734 and the squeegee rubber composition of the present invention, the following Experiments were conducted.

Procedure of the Experiment

With respect to the squeegee rubber composition A, B, C and D described in the instant Specification, on page 10, Table 1, hardness, tensile strength (Tb) and elongation (Eb) were determined in accordance with JIS-K 6301.

Result

Results obtained are shown in the following Tables 1 and 2. Table 1 shows the results with respect to the above squeegee rubber compositions and Table 2 shows with respect to the side rubbers, in Example 7, and Comparative Example 15 a and b of the USP'734..

Table 1

Rubber composition	A	B	C	D
Hidrotalcite (part by weight)	-	0.5	5	10
Hardness (Hd)	63	62	62	61
Tensile strength kg/cm ² (Tb)	218	209	203	193
Elongation (%)	396	379	411	387

A: coating rubber, B,C and D squeegee rubber

Table 2

	Example 7	Comparative Example 15a	Comparative Example 15a
Hardness (Hd)	57	55	55
Tensile strength kg/cm ² (Tb)	158	160	161
Elongation (%)	630	620	610

4. Consideration

The result clearly shows that the squeegee rubber composition of the present invention exhibits a higher tensile strength and hardness (elasticity) as compared with those of the side rubber disclosed in USP4,714,734.

In particular, side rubber shows a lower hardness and higher elongation, which attaches importance to flexibility and prevention of the side crack.

5. I declare further that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

December 13 , 2004

Kazunori KANEDA

Date

Kazunori KANEDA